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Bechuanaland Protectorate Government



# Annual Medical and Sanitary Report

for the year 1954



Office of the Director of Medical Services, MAFEKING

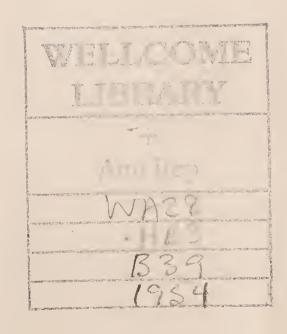


# **Bechuanaland Protectorate Government**



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for the year 1954



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# ANNUAL MEDICAL AND SANITARY REPORT

# for the year 1954

# SECTION I — ADMINISTRATION

# 1. STAFF

# Senior Service

Director of Medical Services.

- 1 Medical Officer of Health.
- 11 Medical Officers.
- 3 Health Inspectors.
- 4 Matrons.
- 10 Nursing Sisters.
- 1 Nursing Sister (District).
- 1 Housekeeper.
- 2 Clerks.
- 1 Storeman.
- 2 Lady Clerks.
- 2 Rodent Officers.

# Junior Service

- 5 Health Assistants.
- 19 Dispensers.
- 1 Microscopist.
- 1 Senior Sanitary Inspector.
- 5 Sanitary Inspectors.
- 2 Pupil Sanitary Inspectors.
- 4 Learner Rodent Assistants.
- 17 Medical Orderlies.
- 23 Staff Nurses.
- 27 Probationer Nurses.
  - 4 Male Attendants (Mental Home).
  - 3 Female Attendants (Mental Home).
- 7 Cooks.
- 5 Clerks.
- 7 Drivers.
- 7 Lorry Labourers.
- 4 Kitchen Helps.
- 5 Gardener/Messengers.
- 6 Labourers.
- 17 Launderers.
  - 4 Sewing Women.
- 22 Housemaids.
- 2. The Director of Medical Services was absent on study leave for 11 months of the year. Dr. B. T. Squires acted as Director of Medical Services during his absence.

- 3. The staff position was again unsatisfactory during 1954. The post of Medical Officer at Gaberones was not filled until July; from September until December there was only one Medical Officer at Francistown, and for the greater part of the year only one Medical Officer at Lobatsi.
- 4. One Medical Officer's post and the post of Medical Officer of Health were not filled during the year.
  - 5. One Medical Officer resigned and two were appointed on probation.
- 6. With regard to Nursing Sisters the position was easier than during 1953 until December when two Sisters became ill. One Sister was appointed on probation and one proceeded on overseas leave.
  - 7. The post of Housekeeper was not filled permanently during the year.

8. Staff Changes

Dr. H. F. Morton appointed on probation—May 1954.

Dr. D. W. G. King appointed on probation—December 1954.

Dr. J. F. Quantrill resigned—31.8.54.

Mrs J. Ford appointed Nursing Sister on probation—11.10.54.

Mr. W. K. P. Smith appointed Health Inspector on probation—1.7.54.

Rodent Inspector T. Burger resigned—4.11.54.

Health Inspector S. F. Kotze—deceased.

#### VISITS

- 9. Dr. D. R. Thomson, Tuberculosis Consultant to the World Health Organisation, paid a visit to the Territory in January.
- 10. Mr. K. Borch, United Nations International Childrens' Emergency Fund regional representative for Africa, visited Mafeking in July in connection with the Extra-Venereal Treponematosis project being undertaken by Government in conjunction with World Health Organisation, United Nations International Childrens' Emergency Fund and the South African Institute for Medical Research. Future UNICEF-assisted projects were also discussed.
- 11. Mr. M. J. Lebeuf, a sociologist of the World Health Organisation, visited the Territory in November for two weeks.
- 12. Dr. F. Zumpt, Senior Entomologist of the South African Institute for Medical Research, arrived in the Territory in December to carry out an arthropod survey.
- 13. The Director of Medical Services, while on study leave, attended the fourth session of the Africa Regional Committee of World Health Organisation at Leopoldville, Belgian Congo, in September.

# **LEGISLATION**

- 14. Government Notice No. 24 of 1954: Regulations for the Prevention of the Spread of Yellow Fever.
- 15. Proclamation No. 38 of 1954: Bechuanaland Protectorate Inquests Proclamation.
- 16. Government Notice No. 41 of 1954: Regulations for Inspection of Meat and Control of Public Abattoirs and Export Slaughter Houses.
- 17. Proclamation No. 48 of 1954: Opium and Habit-Forming Drugs: Amendment to the Opium and Habit-Forming Drugs Proclamation (Cap. 43 of the Laws).

# SECTION II — PUBLIC HEALTH

# BILHARZIASIS

18. 57 (40)\* cases were diagnosed, of which 8 were sufficiently severe to warrant hospital treatment. 30 (25) of these patients were from the Bakgatla Reserve where the disease is endemic. All were infections with S. haematobium.

# DIPHTHERIA

- 19. The total number of cases notified was 132 (166) with 16 (16) deaths. There were no extensive epidemics during the year; small outbreaks were recorded mainly from the Serowe district where 54 (39) cases were diagnosed, and from the Molepolole, Lobatsi and Francistown areas.
  - 20. The distribution of cases is given in Table I.

		TABL	ΕI			
District					Ca	ises
Francistown					26	(11)
Gaberones		• • •	• • •		5	(1)
Kanye		• • •	,		3	(2)
Lobatsi				• • •	12	(6)
Mafeking (he	adqua	rters)				(1)
Mahalapye	•••		• • •		10	(47)
Maun and Gl	hanzi					(35)
Mochudi		• • •			5	(2)
Molepolole		• • •			12	(21)
Ramoutsa			• • •		5	(1)
Serowe		• • •	• • •		54	(39)
					132	(166)
				;		

There were 16 (16) deaths.

21. 11,987 prophylactic inoculations were given during the year.

# DYSENTERY

22. 1,103 (1,022) cases were notified of which 370 (552) were bacillary, 125 (129) amoebic and 608 (321) unspecified.

# LEPROSY

23. 19 (30) cases were reported of whom 16 (30) were in Ngamiland, 2 in Serowe district and 1 (an Indian woman) from Ramoutsa. Other than in Ngamiland, where even there no more than about 50 lepers are known to exist, this disease is fortunately not a problem in this Territory, only occasional and isolated cases occurring.

#### MALARIA

- 24. 1,472 (1,865) cases were reported; no epidemics occurred during the year.
- 25. Routine spraying was continued at Maun with D.D.T. M25 emulsion. As the floodwater in 1954 rose to a level unsurpassed since 1925, extra labourers were employed in the spraying gangs. No increase in the number of mosquitoes was noted.

<sup>\*</sup>Figures in brackets where given show comparable figures for 1953.

- 26. Quarterly spraying of all African huts within the controlled area at Maun with 1/8 M25 solution has been continued, as was quarterly spraying of all brick houses, European and African, with 5% DDT in kerosene. Spraying of houses was discontinued during the winter months. This spraying consumed 345 gallons of M25 and 717 gallons of 5% DDT.
- 27. In Francistown too routine spraying was carried out throughout the year. Paludrine was issued as a prophylactic measure to all African schools in the Bokalaka and Tati areas. An increase in the school attendance was noted.
  - 28. The distribution of cases is given in Table II.

TABLE II							
District					Ca	ises	
Francistown		• • •		• • •	315	(415)	
Gaberones		• • •	• • •	• • •	10	(13)	
Kanye	• • •	• • •	• • •	• • •	16	(22)	
Kazangula (n	ot rep	oorted)	• • •	• • •		(312)	
Lobatsi	• • •	• • •	• • •		8	(1)	
Mahalapye	• • •	• • •	• • •	• • •	17	(19)	
Mochudi	• • •		• • •	• • •	23	(14)	
Molepolole		• • •			120	(102)	
Ngamiland		• • •	• • •	• • •	807	(563)	
Serowe	• • •		• • •	• • •	156	(404)	
					1,472 (	(1,865)	

- 29. There were 3 (3) deaths.
- 30. The inter-territorial agreement with the Union Health Department regarding control measures on both sides of the border along the Crocodile and Molopo Rivers remained in force.

# MALNUTRITION AND DEFICIENCY STATES

- 31. The total number of cases of deficiency disease reported was 3,177 (1,682) although the rainfall of 1954 was generally good. Of these cases 33 were diagnosed as beri-beri, 94 as pellagra, 364 as scurvy and the remainder, 2,686, as "other deficiency states".
- 32. It is of interest that no case of Kwashiorkor has yet been reported. The total number of cases of deficiency states is approximately 2% of the total number of first attendances as against 1.7% for 1953.
- 33. Owing to shortage of staff it was not possible to continue the recording of tongue patterns during 1954 as was done in 1953.

# **PLAGUE**

- 34. No case of plague was reported during the year. Routine antiplague work and surveys were seriously curtailed during the year by shortage of staff occasioned by the death of one Health Inspector and the resignation of a Rodent Officer. Further, the performance of the surveys was also hindered by failure of transport and closure of roads owing to the very high floods.
- 35. Rakops and Makalamabedi were visited twice; no signs of rodent mortality were seen and the rodent population appeared to be low. Similarly, two visits to the Chobe area gave no signs of rodent mortality and very few rodents.

- 36. A visit to Shakawe at the beginning of the year brought similar findings although it was reported that there was an apparent increase in the rodent population between Tubu Island and Tsau.
- 37. Ghanzi area was surveyed as far as Nojane in November. Reports were received to the effect that rodent burrows at Nojane, Kuli and Nxole were deserted and that evidence of rodent mortality had been found.
- 38. Again owing to the staff shortage the visits along the Molopo River had to be undertaken at short notice by the Health Inspector of Lobatsi. During the tour 741 huts were dusted with DDT.
  - 39. It was not possible to visit the Tsane-Lehututu area.
- 40. Figures for the rodent surveys in the north and west are given in Table III.

# TABLE III

# Rodent Surveys

Number of rodents trapped	16
Number of fleas found on trapped rodents	7
Number of huts tested for presence of fleas	3,602
Number of fleas caught in huts	37
Number of huts treated with cyanogas	13
Number of rodents killed in huts	1
Number of huts dusted with DDT (10% in talc)	20,836
Amount of DDT (10% in talc) used	10,800 lbs.
Amount of cyanogas used	1 lb.
Amount of poisoned bait used (grain)	28 lb.

#### RABIES

- 41. No case of human rabies was notified although 26 cases of bites, chiefly by suspected rabid dogs, were recorded.
- 42. Sporadic cases of canine and feline rabies occurred in the Serowe and Ngamiland districts.
- 43. A total of 1,671 prophylactic anti-rabies injections were given during the year to persons at risk.

# RESPIRATORY DISEASES

44. 14,627 (10,256) were recorded, with 37 (20) deaths. Cases of pneumonia (all types) numbered 553 (339) with 34 (12) deaths; 25 of these deaths occurred amongst infants and children. Total mortality was 6.1%.

#### **SMALLPOX**

- 45. Four isolated cases were notified, three of which came from the Molepolole area and one from Lobatsi. This latter case was considered to be one of "kaffirpox".
- 46. Vaccinations were repeated in the communities at risk but no wide-spread campaign was considered necessary.
  - 47. All mine recruits continued to be vaccinated on attestation.

# **TRYPANOSOMIASIS**

- 48. Only two cases of trypanosomiasis were admitted to Maun hospital during the year; both recovered. The patients, who were not Government employees, contracted the infection, so far as can be ascertained, in the Tsau-Nokaneng area. The routine method of treatment with pentamidine, suramin and tryparsamide was used.
- 49. All Tsetse Fly Control personnel received prophylactic treatment with pentamidine isethionate. This procedure is presently under review.

# **TUBERCULOSIS**

- 50. Dr. D. R. Thomson, tuberculosis consultant to World Health Organisation, visited the Territory in January 1954. His report was not available during the year.
- 51. 2,278 (1,579) cases sought treatment during the year, an increase of roughly 50% on the 1953 figures.
- 52. Available accommodation for these cases has been severely strained during the year and it is evident that further accommodation must be provided as a matter of urgency.
  - 53. The distribution of cases in the various areas is given in Table IV.

	T	ABLE	IV			
District				C	Cases	
Chobe (not re	eporte	d)	• • •	-	(26)	
Gaberones	• • •	• • •	• • •	37	(4)	
Francistown	• • •	• • •	• • •	241	(130)	
Kanye	• • •	• • •		459	(367)	
Kazungula (n	ot rep	orted)	• • •		(3)	
Khale		• • •	• • •	125		(not reported)
Lobatsi	• • •	• • •	• • •	337	(196)	
Mafeking	• • •	• • •	• • •	9	(5)	
Mahalapye	• • •	~ • • •	• • •	63	(34)	
Maun	• • •	• • •	• • •	83	(91)	
Mochudi	• • •	• • •	• • •	51	(26)	
Molepolole		• • •	• • •	293	(205)	
Ramoutsa	• • •	• • •	• • •	286	(281)	
Serowe	• • •	• • •	• • •	294	(211)	
				2 279	(1.570)	
				2,210	(1,579)	

- 54. The number of deaths was 32 (31).
- 55. Of the cases recorded respiratory tuberculosis accounted for 1,629 (1,188) cases, glandular and miscellaneous tubercular infection for 349 (394), bone and joint tuberculosis for 185 (133), tuberculosis of peritoneum and intestines 100 (57) and tuberculosis of the meninges and central nervous system for 15 (7).

# VENEREAL DISEASES

56. 13,516 (11,269) cases were diagnosed. Syphilis and Gonorrhoea accounted for 13,442 (11,227), lymphogranuloma venereum for 34 (42) and granuloma inguinale for 48 (—). 2 (1) cases of general paralysis of the insane were recorded.

# YELLOW FEVER

- 57. No further investigations on yellow fever were carried out during the year.
- 58. Samples of blood from 49 African school-children at Francistown were submitted for the mouse protection test; all were negative. This was in continuation of an annual survey to determine whether any immunity against yellow fever was developing in the permanent population there.
- 59. 994 yellow fever international inoculation certificates were issued during the year.

# MISCELLANEOUS INFECTIOUS AND CONTAGIOUS DISEASES

60. The recorded incidence of these disorders is given in Table V.

	T	$^{T}\!A$	B	LE	V
--	---	-----------	---	----	---

Diseases						Cases	Deaths
Acute anterio	or polion	nyelitis	• • •	• • •	• • •	$2 \qquad (4)$	
Measles	• • •	• • •		• • •		694 (575)	
Meningococc	al Infect	ions			• • •	44 (28)	7 (-)
Pertussis		• • •		• • •	• • •	1,302 (1,006)	5 (2)
Scarlet Fever	• • •	• • •	• • •	• • •	• • •	2 ()	
Typhoid and	Paratyp.	hoid Fe	ever	• • •		7 (9)	1 (-)
Varicella				• • •		176 (138)	

# SECTION III — VITAL STATISTICS

61. The last available census figures of 1946 are given below:—

		LE	VI
- 4	хк		- V
1	Y L		- Y .I.

		 - P		
Europeans		 • • •	• • •	 2,379
Africans	• • •	 		 292,755
Asiatics	• • •	 • • •	• • •	 94
Coloured	• • •	 		 1,082
				296,310

This total corresponds with a population density of just over 1 per square mile.

# TABLE VII

Total European births			 51	
Births per 1,000	• • •			20.1
Total European deaths	• • •		 16	
Deaths per 1,000				6.4
Deaths under 1 year of age		• • •	 Nil.	

# TABLE VIII

#### Causes of European Deaths

	1111000	vii opevii		- 1.7		
Malignant Neo	plasms				• • •	4
Cardiac disease					• • •	6
Pneumonia and	d other bro	onchop	ulmona	ry dise	eases	1
Diphtheria		• • •			• • •	1
Meningitis		• • •			• • •	1
Tuberculosis						2
Fracture of sku	ıll (accider	ntal)			• • •	1

# ILLNESS OF OFFICIALS

62. Causes of morbidity amongst European and African Government officials who were off duty for more than 14 days are given in Tables IX and X. There are 376 European and 1,233 African officials employed in Government Service.

			LE IX				e
Injury		• • •	•••	• • •	• • •	• • •	1
Angina Pecto	oris	• • •	• • •		• • •		2
Paroxysmal 7	<b>Tachyc</b>	ardia		• • •	• • •	• • •	1
Jaundice		• • •	• • •		• • •	• • •	1
Abortion		• • •	• • •	• • •	• • •	• • •	1
Asthma					• • •	• • •	1
Influenza	• • •	• • •			• • •		2
Enteritis	• • •	• • •	• • •		• • •	• • •	1
Urticaria	• • •	• • •	• • •	• • •	• • •	• • •	1
Malaria	• • •	• • •		• • •	• • •	• • •	1
Osteoarthriti	S			• • •	• • •	• • •	1
		717 4 17	ar v				
			SLE X ricans				
Annandicitie		AJI	icuns .				2
Appendicitis	• • •	• • •		• • •	• • •	• • •	2 3
Febricular	• • •	• • •	• • •	• • •	• • •	• • •	
Synovitis	• • •	• • •	• • •	• • •	• • •	• • •	1
Malnutrition		•••	• • •	• • •	• • •	• • •	1
Injuries and	accidei	its	• • •	• • •	• • •	• • •	6
Phlebitis	• • •	• • •	• • •	• • •	• • •	• • •	2
Hernia	• • •	• • •	• • •	• • •	• • •	• • •	1
Pleurisy	• • •	• • •	• • •	• • •	• • •	• • •	1
Tonsillitis	• • •	• • •	• • •	• • •	• • •	• • •	1
Influenza	• • •	• • •	• • •	• • •	• • •	• • •	1
Pneumonia	• • •	• • •	• • •	• • •	• • •	• • •	2
Tuberculosis	• • •	•••	* • • •	• • •	• • •	• • •	3
Meningitis		• • •	• • •	* * *	• • •	• • •	1
Arthritis	• • •	•••	• • •	• • •	• • •	• • •	1
Mental Dera	_	nt	• • •	• • •	• • •	• • •	
	• • •	• • •	• • •	• • •	• • •	• • •	l
Typhoid Fev	er	• • •	• • •	• • •	• • •	• • •	1

63. There were 2 deaths; 1 European and 1 African.

# SECTION IV — HYGIENE AND SANITATION

# MATERNITY AND CHILD WELFARE

64. Figures for 1954 are given in Table XI.

# TABLE XI

Number of deliveries in hospital	1,847	(1,352)
Accidents and complications of preg-		
nancy including abortions	573	(345)
Ante-natal attendances (12 centres)	16,895	(7,126)
Post-natal attendances	2.589	(216)

- 65. Maun Maternity Centre has been enlarged by the addition of a new wing which includes an 8-bed ward, a nursery of 10 cots, sluice room, bathroom, lavatory and a duty room.
- 66. Ante-natal clinics have been developed extensively during the year, and child welfare clinics are now established at 3 centres as against 1 in 1953. Post-natal clinics are, however, difficult to establish as Tribal Law and Custom ordain a long period of hibernation for the mother in the post-puerperal period.

# NATIVE LABOUR RECRUITMENT

67. The numbers dropped somewhat during 1954, 30,535 (37,488) passing through the various depots. 10,275 recruits passed through Francistown in transit from other centres. Distribution is given in Table XII.

Station				Total No.	Rejects
Francistown				187	10
Gaberones		• • •		1,409	22
Kanye				2,105	51
Lobatsi				3,487	113
Mahalapye				1,273	97
Maun				741	38
Mochudi		• • •		323	5
Molepolole				2,715	163
Ramathlabai	na (N	Mafeking	g)	440	5
Serowe		• • •		3,465	133
Shakawe				4,115	60
W.N.L.A. (F	Road	and Ai	rlift)	10,275	p
				30,535	697

# TRANSPORT OF RECRUITS BY WITWATERSRAND NATIVE LABOUR ASSOCIATION AIR LIFT

- 68. The airlift continued to function successfully during the year. 10,275 recruits and repatriates were transported from and to Shakawe, Lilongwe and Barotseland, of whom 8,898 travelled by air.
- 69. The total number of miles flown was 1,190,319. There were no accidents.

# PRISONS AND ASYLUMS

70. The two gaols at Gaberones and Francistown normally cater for long-term prisoners, short-term cases being accommodated in "lock-ups" at the district headquarters. A separate European block has been erected at Lobatsi.

# General Health of the Prisoners

- 71. General health was good and no epidemics were recorded. A few cases of malnutrition were diagnosed in newly-admitted prisoners. Isolated cases of venereal disease were also recorded.
- 72. Cases admitted to hospital numbered 49 in all (Lobatsi 14, Maun 13, Francistown 7, Serowe 6, Kanye 9). There were 2 deaths.

# Diet

73. The dietary scale introduced in 1952 has continued to prove satisfactory.

# Facilities for Medical Inspection and Treatment

74. Regular weekly gaol inspections are held where a medical officer is available. At these inspections all complaints are investigated. Prisoners may also report to the dispensary at times other than those of the routine inspections.

# **Hospital Admissions**

spitai	Aumissions					
75.					Cases	Deaths
	Lobatsi			• • •	14	
	Maun	• • •	• • •		13	1
	Francistown			• • •	7	1
	Serowe		• • •	• • •	6	
	Kanye		• • •		9	
					49	2

# Sanitation

76. Lobatsi is still the only gaol where water-borne sanitation is provided. Otherwise, save at Ghanzi and Kasane, where pit privies are employed, the bucket system of nightsoil disposal is still in use.

# Asylum

- 77. The asylum, despite being enlarged to twice its former size—there being provision for 24 patients—was fully occupied throughout the year. The inmates can now amble outside the building every day; this innovation has produced a marked improvement in their health. Most of the ground now enclosed by fencing has been turned into a garden which is tended by the inmates.
- 78. During the year 11 patients were admitted, one was discharged, one died and one was transferred to the Ingutsheni Mental Home in Southern Rhodesia. The Colony continued to accept from this Territory mental patients who were dangerous or who were likely to benefit from modern institutional treatment.

# **MEAT INSPECTIONS**

79. TABLE XIII

Nu	mber	slaugh	tered and	inspected	
			Bovines	Sheep and	Pigs
				Goats	
Francistown		• • •	832	367	52
Lobatsi		• • •	457	1,962	57
Maun		• • •	536	540	8
TOTALS	• • •	• • •	1,825	2,869	117
					===

# 80. Condemnations and nature thereof are given in Table XIV.

TABLE XIV
Condemnations, either total or partial

		Bovines	Sheep and Goats	Pigs
Lobatsi				
Stilesia		Management	1,304	
Pericarditis		4		-
Echinococcus Cysts		12	9	
Abscesses	• • •	21	2	
Measles		57	portunity martin	
Pyaemia		1	1	
Actinomycosis		4	proposition—d	
Inflammation		1	1	
Bacterial Necrosis		2	proposition	
Strongyli		1		
Strogylus Rufescems			3	—
Mastitis		6	_	
Nephritis		3	—	
Presternal Calcification		1		
Caeseous Lymphadenit	is		21	
Cysticercus Tenuicollis			2	
Uraemia			1	
Pleurisy	• • •	-	1	
Maun				
Stilesia hepatica			53	
Flukes		174	50	
Pericarditis			1	
Echinococcus cysts		1		
Abscesses		3	1	
Measles		4		
Francistown  Cysticarous Collulasea				2
Cysticerous beyis	• • •	10		2
Cysticercus bovis	• • •	10		
Septicaemia Emaciation		5	4	
	licad	0	4	_
Sarcosporidiosis genera Mastitis	IISEU	8	-	
D ( C- 1'	• • •	2		
Tatanaire barriaire	• • •	2 4		
A 1	• • •	19	3	
Datter in Altmotion	• • •		3	
ratty inflittation	• • •	2	·	

				Bovines	Sheep and Goats	Pigs
Telangiectasi	S			4		
Hepatitis	• • •		• • •	25	2	
Echinococcus	S	• • •	• • •	7		
Pneumonia	• • •		• • •	39	5	
Splenitis	• • •	• • •	• • •	2		
Haematoma	• • •	• • •	• • •	1		-
Pericarditis	• • •	• • •		3		
Myocarditis	• • •		• • •	2		
Enteritis	• • •	• • •	• • •	2		
Pimply gut	• • •	• • •		4	71	Sharewar at male
Mammitis	• • •	• • •	• • •	5	<del></del> .	
Actinomycos	is			2		
Stilesia	• • •	• • •		—	163	
Necrosis	• • •	• • •	• • •		2	
Fibrosis		• • •		der-constraint of	1	

#### **NEW HOUSING**

81. The following new houses for Europeans were erected by the Public Works Department during the year:—

Francistov	vn			2
Ghanzi	• • •	• • •	• • •	2
Kanye	• • •		• • •	1
Lobatsi			• • •	2
Ramathlal	oama			1
Serowe				1

- 82. At the Lobatsi Hospital an out-patients' room, a food utensil wash-up room and additions to the African Staff quarters were completed.
- 83. Accommodation for European prisoners was provided at the Lobatsi gaol.
- 84. Additional departmental office accommodation was provided at headquarters.
  - 85. Eight houses for Africans were also erected.

# SECTION V — HOSPITALS AND DISPENSARIES

# **OUT-PATIENTS**

OCT TITLE					
86.		TABL	E XV		
	First attendance		• • •	115,688	(91,432)
	Subsequent attendar	nce	• • •	256,186	(166,257)
	Total	• • •	•••	371,874	(257,689)

# IN-PATIENTS

87. The number of admissions was 10,136 (8,526). At the end of 1954, 560 beds were available, 28 European, 462 African and 69 cots, as against 532 in 1953.

# 88. Leading hospital statistics are given in Table XVI.

# TABLE XVI Hospital Statistics

		позрии	Siai	usucs				
Hospital		Ве	ds	Cots	Patie.	nts	1	rations
-		European	Africa	n	Admissions	Deaths	Major	Minor
Francistown	• • •	6	39	7	1,766	54	9	1,404
Kanye Medical Mission	n		66	6	1,162	13	64	169
Kanye Moffat Hospital	1	. 1	26	6	576	5	38	82
Kazungula		. —	6					
Khale (Roman Catho	lic Mis	-						
sion)			5		55			
Lobatsi (including	Menta	1						
Home)		1 1	115	6	1,500	29	239	172
Mahalapye		. —	8	1	121	6		136
Maun		. 5	31	2	626	29	8	219
Maun Maternity Centr	·e	. —	12		130	6		
Mochudi		. —	18	3	398	12	2	47
Molepolole			45	11	1,078	13	14	235
Ramoutsa (Hermansbe	erg Mis-							
cion `		. —	13		134			
Serowe		. 5	79	27	2,324	87	149	188
Gaberones	••	. —						106
Totals	• • • • •	. 28	463	69	9,870	254	523	2,758

# **DISPENSARIES**

- 89. No new dispensaries were opened during the year. A resident dispenser from the Kanye Medical Mission was posted to Tsane which hitherto had been visited periodically. Tsane is so far from the nearest medical station that a resident dispenser there is a necessity if any real curative work is to be done.
- 90. Tonota dispensary was not opened during the year. Building renovations are expected to be completed there shortly when the Unit will be reopened in charge of an African Dispenser.
- 91. The Dispenser at Shakawe visited Sepopa as often as possible and Seronga when barge transport was available.
- 92. Rakops dispensary, in charge of an African Health Assistant, was visited by the Medical Officer, Serowe, during the latter part of the year when floods made the periodical visit from Maun impossible.
- 93. Kalkfontein dispensary, opened last year, has fulfilled a real need. The dispenser has also made trips to Ghanzi, Makunda and Nojane when transport was available.
- 94. Visits to Palla Ranch by the Medical Officer, Mahalapye, were discontinued during the latter part of the year. The numbers at Dikgathlong increased considerably and visits there were continued.
- 95. Prefabricated dispensary units were erected at Shoshong, Gabane and Molepolole and replaced inadequate or unsuitable structures.

# SECTION VI — MISCELLANEOUS

# COLONIAL DEVELOPMENT CORPORATION

- 96. The abattoir at Lobatsi was opened officially on 11th October after several postponements due to structural alterations.
- 97. The employees at present consist of 26 European and nearly 300 Africans.
  - 98. Up to the end of the year 9,588 slaughter carcasses had been processed.
- 99. There has been a reduction in both European and African staff at Matetsi. An African location has been built and appears to be satisfactory. No permanent dispensary building has yet been erected.

# NURSING EXAMINATIONS

100.	No. of	No.	No.
	Candidates	Passed	Failed
Preliminary Examinations	 51	46	5
Final Examinations	 14	10	4
Final Midwifery Examinations	 4	3	1

- 101. There were in all 3 passes with honours and 14 passes with merit.
- 102. Following deliberation at a meeting of the Executive Nursing Committee, a departure from routine was made this year in the method of conducting the practical examinations. In previous years practical examinations have been carried out at the examination centre. Allegations were made that the candidates were nervous and not at their best in strange surroundings. This year, therefore, arrangements were made for the candidates to take the practical examination in their own hospital amid familiar surroundings. The sister-incharge of the hospital acted as internal examiner whilst a sister from another hospital acted as external examiner.

# **PUBLICATIONS**

103. Squires, B. T.: Ultra-violet Fluorescence of the Tongue, B.M.J., 1954, ii, 1106.

# COLONIAL DEVELOPMENT AND WELFARE FUND SCHEMES

- 104. Funds from Colonial Development Fund Scheme D.1037 will be exhausted and the scheme will close at the end of the 1955/56 financial year. Apart from the purchase of ambulances, the only major project yet to be completed is the construction of a new Health Centre at Gaberones with accommodation for 6 in-patients at an estimated cost of £5,500.
- 105. As to Scheme D.2014, part of the funds diverted during 1953 have been used in maintenance of skeleton staff for the Extra-Venereal Treponematosis project. It was not possible for Government to recruit a Medical Officer for secondment to the Scheme in terms of the agreement drawn up with World Health Organisation. Every effort continues to be made to do so.

# HABIT-FORMING DRUGS

106. Import certificates numbering 8 were issued during 1954.

107. The following habit-forming drugs were imported during the year:—

Morphine ... grammes 358.246
Cocaine ... grammes 87.7
Indian Hemp ... grammes 44.9
Pethidine ... grammes 149.607

# GOVERNOR-GENERAL'S NATIONAL WAR FUND

108. There were no new grants during the year. Most Mission Hospitals in receipt of grants completed the work in hand and very little money was still oustanding at the end of the year.

# EXTRA-VENEREAL TREPONEMATOSIS

- 109. The broad plan of this project, sponsored jointly by the World Health Organisation, United Nations International Children's Emergency Fund, the South African Institute for Medical Research and the Bechuanaland Protectorate Government was outlined in the 1953 Report. The Scheme has now been functioning for over 13 months during which period work has been confined to the Bakwena Reserve which was adopted as an experimental pilot area. This is an area of some 10,000 square miles with a population, as far as can be ascertained, of 40,000 people. During the past year over 36,000 persons in this area were investigated and a blood sample from a high proportion of the populace was taken. Details of each person seen were entered on a punched filing card and missing members of the family unit were also noted on the card. In this pilot area cases and contacts were treated as they were found and a detailed assessment as regards their response to treatment is now being made. Much of the laboratory work was done at the laboratory set up by the South African Institute for Medical Research at Molepolole.
- 110. In the mass treatment campaign throughout the Territory which is now being organised and which is due to commence in July 1955, intensive serological investigations will not be required; the main aim will be to find and treat all infectious cases and their contacts.
- 111. Hitherto the project has been most enthusiastically received by the people. No obstacles have been placed in the path of the team; on the other hand every possible co-operation has been forthcoming from the Chiefs down. The only social obstacle encountered and likely to play a major role in the mass treatment campaign is the continual migrating habits of the people with its consequent splitting of families and the difficulties resulting therefrom. As this is an integral part of the life of the people, no method of overcoming it entirely can be foreseen.
- 112. This project is likely also to yield considerable invaluable scientific information. The spirochaete has been successfully transmitted to hamsters and is now available in Boston, United States of America, for comparison with other strains. Various surveys have also been made on batches of sera to determine the incidence of other infectious diseases. Changes in lipoprotein contents of the sera which could conceivably be associated with the high seropositivity rate of 30% have also been determined. These latter studies are being pursued by biochemical and electrophoretic means at the South African Institute for Medical Research.

# EXTRACTS FROM DISTRICT REPORTS

113. The Government Medical Officer, Francistown, indicates in his report that departmental revenue increased by £434 to £1,473. In-patients accommodation was inadequate and isolation facilities, particularly for pulmonary tuberculosis, were negligible. Paludrine was issued prophylactically to all African schoolchildren in the Bokalaka and Tati areas from January to May with resultant increase in school attendances. The new Government abattoir has filled a long-felt want and is functioning satisfactorily. Water-borne sanitation was extended in the hospital, which was also re-wired for electricity

- 114. The Health Inspector, Francistown, refers to a noticeable improvement in the handling of foodstuffs. Most employers now provide their employees with protective clothing. The practice of renewing trading licences automatically each year instead of with prior reference to the Medical Department to ascertain whether any modifications are desirable, is one which merits re-consideration. This district had considerable rains and anti-malarial measures were intensified. Much attention is being paid to improving general sanitation in the location.
- originally intended that the Mission's activities would be mainly in the villages throughout the Reserve. The increase in patients has, however, been mainly in Kanye and the work has therefore been equally divided between Kanye and the district. While ante-natal and maternity services have expanded very considerably, traditional customs make it difficult to institute post-natal clinics. 1,498 patients were seen at the Moshaneng Asbestos Mine which is visited weekly. The mine authorities are making a strong effort to reduce the hazards of asbestosis. Ventilation is good and mining methods are controlled by inspectors, but the mill is possibly associated with risk.
- 116. The Medical Missionary, Seventh-Day Adventist Hospital, Kanye, writes of the generous gift from the Governor General's National War Fund in the previous year which enabled the Mission to sink its own borehole. Exhaustive tests indicated that the yield was 1,000 gallons per hour. Attendances at the Tsane dispensary, erected by Government, were high and the Mission have now posted an African Dispenser to that area on a permanent basis. The Medical Missionary visits the dispensary at two-monthly intervals, the cost of such visits being borne by Government. The general state of nutrition in this part of the Territory was noted to be good.
- 117. The Medical Officer, Lobatsi, refers to the construction of a new out-patients' room in which all dressings are done, and to a number of extensions to the African staff quarters. The completion of the security fence round the Mental Home has enabled the enclosed ground to be cultivated to the benefit of the inmates and the general appearance of the institution has been greatly improved. 239 major and 172 minor operations were performed despite the fact that for the major portion of the year only one Medical Officer was posted to this station.
- 118. The Health Inspector, Lobatsi, writes of the improved methods of refuse disposal introduced in the town. The siting of refuse bins at strategic points has elicited a good response from both the European and African population in keeping the town clean. There are 162 food stores in the area of jurisdiction of the Health Inspector, and he was able to visit each store three times during the year and proffer advice on the handling of food. Many of these stores, however, are totally unsuited for the type of business carried on. Hotels were also inspected at regular intervals. 33 cases of diphtheria came to his attention and, as a result, 2,864 prophylactic inoculations were given.
- 119. The Government Medical Officer, Mahalapye, draws attention to the increasing failure on the part of the people to pay for the hire of the ambulance. With the increase in numbers attending the Dikgathlong clinic it became increasingly difficult to continue the clinic at Palla Ranch. 10 cases of diphtheria with 2 deaths were seen. The response to warnings issued to

bring children for diphtheria immunisation was disappointing. 97 of 1,273 mine recruits examined were rejected as unfit, mainly because of bronchial conditions, poor physique, venereal disease and skin conditions.

- 120. The Medical Officer, Maun, refers in his report to the completion of the building programme under Colonial Development and Welfare Fund Scheme D.1037 as a result of which accommodation for 32 African and 5 European patients is now provided. Water storage at the hospital was increased from 6,000 to 10,000 gallons. District tours were perforce curtailed because of transport difficulties and also because of severe flood conditions. Some use was made of available air transport to visit outlying centres, but such visits were of necessity restricted. Anti-plague measures were also somewhat curtailed by the floods. Only 2 cases of trypanosomiasis were admitted to hospital during the year; both recovered. Both cases apparently contracted the disease in the Tsau-Nokaneng area. Sporadic rabies occurred in the canine and feline population. 1,001 prophylactic anti-rabies inoculations were given to persons at risk. Government housing at Maun has been wired and it is intended to draw power from the Aeradio Power Station.
- 121. The Medical Missionary, Molepolole, refers to the increase in the average age of prison inmates with the result that complaints from the prisoners were mainly of a geriatric nature. One prisoner died in hospital but the cause was not stated. 318 babies were born in hospital, while 5,178 ante-natal attendances were recorded. Of 2,715 examined for the Rand mines 163 were rejected, i.e. 6%.
- 122. The Government Medical Officer, Serowe, writes of the considerable increase in ante-natal attendances and deliveries at the Government Maternity Centre. In 1953 322 deliveries took place and there were 2,522 ante-natal attendances; during 1954 the corresponding figures were 662 and 4,682 respectively. There is now inadequate accommodation for all cases seeking to be confined in the Centre. In view of the threat of diphtheria, widespread diphtheria prophylaxis was offered and nearly 5,300 inoculations were done. During May to October there was a marked increase in the rodent population, supposedly due to an outbreak of influenza amongst the cats which exterminated a high proportion of the cat population. Anti-rodent measures were consequently intensified. With the threat of malaria following good rains 6,000 huts in Serowe were treated with insecticides and larvicidal measures were also increased.

# FINANCE

123. The total revenue from Government hospitals and dispensary fees was £7,437 8s. 3d., as follows:—

Francistow	'n	• • •	• • •	• • •		£1,473 10	0
Gaberones				• • •	• • •	311 3	3 0
Lobatsi .		• • •		• • •		1,248 17	9
Mafeking.		• • •	• • •	• • •		10 0	0
Mahalapye		• • •	• • •		• • •	1,034 16	-
Maun .		• • •			• • •	1,386 16	5 3
Serowe .		• • •				1,972 5	5 3
Total	,	• • •	• • •			£7,437 8	3

The corresponding figure for 1953 was £6,877.

124. The total ordinary expenditure of the Department for the financial year ended 31st March, 1955, was £91,999, as follows:—

Personal Emoluments	• • •		• • •	£51,426
Travelling Expenses	• • •	• • •		3,126
Maintenance of Vehicles	• • •	• • •	• • •	2,935
Camping Equipment			• • •	150
Maintenance of Patients				20,000
Hospital Equipment	• • •			3,500
Maintenance of Lunatics	• • •		• • •	1,500
Grants to Hospitals and Miss	ions	• • •	• • •	1,957
Uniforms	• • •	• • •	• • •	800
Public Health Measures	• • •		• • •	4,000
Miners' Phthisis Patients	• • •	• • •	• • •	5
Treatment of Indigent Person		Union I	Hos-	_
pitals	• • •	• • •	• • •	50
		• • •		500
Expenses of High Commis	ssion	Territo	ories	
Nursing Council	• • •	• • •	• • •	50
Transport	• • •		• • •	1,850
Maintenance of Abattoirs	• • •	• • •		100
Bicycles	• • •	• • •		50
Total	• • •	* * *	• • •	£91,999

- 125. The total ordinary revenue of the Bechuanaland Protectorate during the period 1953/54 was £908,255. The proportion of ordinary medical expenditure to ordinary revenue of the Protectorate was 10.12%.
- 126. The total ordinary expenditure of the Bechuanaland Protectorate during the period 1953/54 was £891,700. The proportion of ordinary medical expenditure to ordinary expenditure of the Protectorate was 10.31%,
- 127. Once more rigid economy had to be maintained in the face of financial stringency. As a result, officers were compelled to suffer some curtailment of their requirements. Nevertheless the need for this was fully appreciated, and it is a pleasure to record the willing co-operation of all in maintaining essential services despite shortages of staff.

M. L. FREEDMAN,

Director of Medical Services.

# Return of DISEASES AND DEATHS for the year 1954

RETURN OF DISEASES, INJURIES AND CAUSES OF DEATH FOR THE YEAR 1954

OUT-PATIENTS	Female		089	4	53	792	∞   	2609	2002	] ]	0	182	330 1 841	,000	680 18	6
OUT-P	Male		543	4	39	624	24	1700	3	] [		51	233 1 534	17	37 563 18	6
	§Remaining in Hospital	1954	76	—	5	7			or years		(	7	-	] ] '		
$\infty$	‡Total Cases	Treated	406	7	\$3.8	23	300	09	S.W.		0	258	<u>y</u>   1	12.	44 62 20	4
IN-PATIENTS	Total	Deaths	28	2	7				- <del></del>		(	77		27	16	7   2
ļ	Yearly Total	Admissions	354	7	8 <del>4</del> 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23		56	<del>,</del> m	] ]	0	258	g   11	127	20 20 20	4
	†Remaining in Hospital	1953	52		∞ +		-	4		]						1
	DISFASES		Tuberculosis of respiratory	2. Tuberculosis of meninges and central nervous system	and mesenteric glands  Tuberculosis of bones and jo	ms	Tabes dorsalis	All other syphilis			Brucellosis (undulant fever)	(b) Amoebiasis (b) Amoebiasis	17. Scarlet fever	Erysipelas Septicaemia and pyaemia	21. Diphtheria 22. Whooping cough 23. Meningococcal infections	Plague Leprosy Tetanus

	- 0	351	13			m	-	and the second s		445		68	13	TETRACIONA		26	]	11646
	- 25	310	12			13	-	7	1	517	;	103	41	т		33	1	9328
						1		,	1		·							117
	7   6	55	4		1 (	2	«			82		73	9		ļ	6		1290
	] [				1			The street stree	ļ	-		2			1 *			73
(	2   2	32	4		(	7	«			82		73	\$			6		1217
	-	-	] ]			1					1	l						73
27. Anthrax 28. Acute poliomyelitis 29. Acute infectious encephalitis 30. Late effects of acute poliomyelitis and	tious encep	. , .	34. Infectious hepatitis 35. Rabies	(a) Louse-born epidemic typhus	_	(c) lick-borne epidemic typnus	Ū	Vivax malaria (benign tertian)	(b) Malariae malaria (quartan)	tian)	Blackwater fever	(e)	38. (a) Schistosomiasis vesical (S. Haematobium) (b) Schistosomiasis intestinal			miasis		Total carried forward

\*This form is adapted in accordance with the "Manual of the International Statistical Classification of Diseases, Injuries and Causes of Death. World Health Organisation, Geneva, 1948).

†i.e. the year previous to that for which the return is made.

‡"Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

The figures in this column to be carried on to the next year's Return.

RETURN OF DISEASES, INJURIES AND CAUSES OF DEATH FOR THE YEAR 1954

#### Female 11646 OUT-PATIENTS 49 76 161 49 45 Male 39 21 18 22 27 961 9328 74 § Remaining in Hospital at end of 1954 117 **Treated** ‡Total Cases 44 290 9 IN-PATIENTS Deaths 73 Yearly Total Admissions 1217 24 +Remaining at end of 1953 in Hospital 1 73 Foodpoisoning infection and intoxiother : : c Other and unspecified Trypanoso-: unspecified venereal : : : Leptospirosis icterohaemorrhagica Trypanosomiasis rhodesiensis Brought forward Other disease due to helminths a Trypanosomiasis gambiensis Granuloma inguinale, venereal Guinea worm (dracunculosis) Lymphogranuloma venereum and cestode infestations .... Fapeworm infestation Filariasis (bancrofti)... DISEASES Ankylostomiasis ... Other filariasis Relapsing fever Onchocerciasis Weil's disease) Leishmaniasis Sandfly fever Other and Chickenpox Ascariasis Frachoma Yaws ... Dengue diseases Loiasis cation **(**9) (a) (a) (E) (a) <u>ပ</u> <del>(</del>E) (9) 9 ਉ **T** <u>ပ</u> £ (C) 41. 43. 40.

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miasis

24     1864       7     1       7     1       3     1       2     1       3     1       4     4       5     1       10	127 13459
	127
2	
	1740
	95
12	1659
	18
(n) Dermatophytosis (o) Scabies (o) Scabies	Total carried forward

RETURN OF DISEASES, INJURIES AND CAUSES OF DEATH FOR THE YEAR 1954

			IN-PATIENTS	S		OUT-P	OUT-PATIENTS
DISEASES	Remaining in Hospital	Yearly Total	Total	‡Total Cases	§Remaining in Hospital	Male	Female
	1953	Admissions	Deaths	Treated	1954		
Brought forward	81	1659	95	1740	127	13459	17301
Ē		6	I	6	ø	147	312
and unspecified	-	4 65		5		85 373	397 656
All other allergic disorder, endocrine, metabolic and blood diseases	V <del>4</del>	26	7	28		472 65	379
Psychoneuroses and disorders of per-	-	19		20	yan-ad	37	123
entral nervo	1	S	_	ν,		26	91
system		9 15	2	10		10	8 <u>1</u>
	]	0		<	(	6	5
Epilepsy lnflammatory diseases of eye	4	105		109	10	935	1002
:	2			13		55 28	49
: :		) <del></del>		) <del></del>		126	136
Otitis media and mastoiditis	1	47		47		266	412
All other diseases and conditions of	1	<del>,</del>		<del>,</del>		167	067
eye All other diseases of the nervous	m	29		32		517	543
system and sense organs		36	2	36	1	535	965
Rheumatic fever	m	31	c -	34	2	225 47	208
Arteriosclerotic and degenerative heart			4			: ,	
:		21	7	21	_	25	30,

36 48 48 48 48 48 48 48 48 48 48 48 48 48	41276
2 121 8 1 47 2 8 1 01 2 1	32711
-ω4ωω -       -ω	192
$\alpha = -10.00$	4124
	182
290 101 101 101 101 101 101 101 101 101 1	3981
- -00 -4  0   0  4 4   4	143
Other disease of heart	Total carried forward

RETURN OF DISEASES, INJURIES AND CAUSES OF DEATH FOR THE YEAR 1954

IN-PATIENTS

**OUT-PATIENTS** 

OUI-FAIIENIS	Female	<del></del>	41276	2	0,70	240	4217		3147	16		9		22		187	79		1036	4883	3178	431		2306	62	19		93
	Male		32711	15	2	5	7		989			1						•			2440	332		2057	98	24		109
	§Remaining in Hospital	1954 1954	192			_		C	×			1	•						7 %	38	4			2	4	_		_
2	‡Total Cases	Treated	4124	41	_ 8_	0 5	55		407	23	,	21	,	32		8	24		248	7/01	231	32		92	35	4	•	10
IN-FAIIENIS	Total	Deaths	182	-	_	]		(	7		(	2					1	<u>.</u>	17	]		1		1				
	Yearly Total	Admissions	3981	4	ა ა	0 [	55	j O	397	22	į	21	Ç	73	*	116	24		246	001	224	30		75	32	3	(	01
	†Remaining in Hospital	1953	143	'	7			ι	0				,	~	(	7		• (	76	77	7	2			m			
	DISFASES		Brought forward			eases of preast	<u>8</u>		System System	puerperium	pr	perium	117. Haemorrhage of pregnancy and child-		118. Abortion without mention of sepsis or		Ab	120. (a) Other complications of pregnancy,	childbirth and the puerperium	(b) Delivery without complications		and spondylitis	Muscular rheumatism and rheumatis		0		126. (a) Chronic Ulcer of Skin (including	tropical ulcer)

11133	232	4 87	0 m	52	0 %		368	84	29	1 1	3314	1594		21	<u>+ ∞</u>	446 35	) (	399	92	1 1	98169	
1170	258	4 / /	- ~	40	2 5	1	279	70	10	0.1	775	1603		36	4	592	) (	36/	601	0	44103	
		1 1		1	1 1		5		-	-	30	7		(	1 —	4	· •	_	4	1 1	313	
56	4 -	12	<del>- 18</del>	_	1	9	146	15	m 0	00	1397	313		29	51	205	[	/9	99	_	9682	
	1 1	1	- 2	—	4	S	\$	m	,	1	1	.		4-	- m	-		0	2		251	
55	# -		- 81		1	9	143	15	85	32	1371	312		28	15	196 20	) (	99	61	_	9425	
						1	8	1	4	D	26	<del></del>		~~ ×	P	6 %	ļ <del>,</del>		2		257	
(b) All other diseases of skin	system	,	ctasis	<u>e</u>	(b) Ophthalmia neonatorum (c) Other infections of newborn	aemolytic disease of newborn	infancy	135. Ill-defined diseases peculiar to early infancy and immaturity, unqualified	_	(b) Observation, without need for fur-		bidity bidity	Accidents, Poisonings, and Violence (External Cause)	or vehicle accidents			143. Accident caused by fire and explosion	144 Accident caused by hot substance cor-	rosive liquid, steam and radiation	145. Accident caused by hrearm 146. Accidental drowning and submersion		

BECHUANALAND PROTECTORATE.

RETURN OF DISEASES, INJURIES AND CAUSES OF DEATH FOR THE YEAR 1954

				IN-PATIENTS	· O		OUT-PA	OUT-PATIENTS
	DISEASES	Remaining in Hospital	Yearly Total	Total	‡Total Cases	§Remaining in Hospital	Male	Female
		1953	Admissions	Deaths	Treated	1954		
	Brought forward	257	9425	251	9682	313	44103	69186
	147. Foreign body entering eye and adnexa		18	1	18	2	71	36
	Foreign body entering other orifice Accidents caused by bites and stings of		70		20		54	48
	venomous animals and insects	1	46	1	.46	2	147	113
	Other accidents caused by animals	m	54		57		142	72
	All other accidental causes	S	1.79	Annual Control of the	184	7	840	467
	148. Suicide and self-inflicted injury	Ì	13	_	13		36	34
-	149. Homicide and injury purposely inflicted							
32	by other persons (not in war)	_	115		116	4	157	182
	150. Injury resulting from operations of war	1		1	1		1	
	TOTAL	266	0870	254	10136	329	45550	70138



